

WHAT IS CLAIMED IS:

1. A pin connection structure comprising:
at least two members to be connected together, each
of the members having an inserting hole;
5 a hollow pin which is inserted into said inserting
hole and is caulked radially outward at an end portion
thereof to thereby connect the members together,
wherein said hollow pin is made of a metal having a
surface-treated layer, and
10 wherein said hollow pin is formed into a convex
shape in at least part of said end portion.
2. The pin connection structure according to claim
1, wherein said metal is an aluminum alloy.
- 15 3. The pin connection structure according to claim
1, wherein said metal is a ferrous material.
4. The pin connection structure according to claim
20 2, wherein said surface-treated layer is an oxide
corrosion-resistant film.
5. The pin connection structure according to claim
25 3, wherein said surface-treated layer is one of chromium
plating and nickel plating.

Sub A. 6. A pin connection structure for use in a floating type brake disc assembly comprising:

a hub;

an annular disc which is concentrically disposed
5 around said hub with a clearance therebetween,

said hub and said disc having plural sets of
semicircular connecting dents opening toward said
clearance to thereby form respective inserting holes;

a hollow pin inserted into each of said inserting
10 holes with a washer fitted on that one end portion of said
hollow pin which is subsequently caulked radially outward
for fixing said washer in position,

wherein said hollow pin is made of a metal having a
surface-treated layer, and

15 wherein said hollow pin is formed into a convex
shape in at least part of said end portion.

Sub C. 7. The pin connection structure according to claim
6, wherein said metal is an aluminum alloy.

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8. The pin connection structure according to claim
6, wherein said metal is a ferrous material.

9. The pin connection structure according to claim
25 7, wherein said surface-treated layer is an oxide
corrosion-resistant film.

15. The method according to claim 13, wherein said surface-treated layer is one of chromium plating and nickel plating.

5 16. A method of connecting a floating type brake disc assembly by pins, comprising the steps of:

disposing a hub and an annular disc in a concentric relationship with each other with a clearance therebetween, each of said hub and said annular disc
10 having plural sets of semicircular connecting dents opening toward said clearance to thereby form inserting holes;

inserting a hollow pin into each of said inserting holes;

15 fitting a washer onto one end portion of each of said hollow pins;

caulking said one end portion of each of said hollow pins radially outward to thereby fix said washer in position,

20 wherein each of said hollow pins is made of a metal having a surface-treated layer and is formed into a convex shape in at least part of said end portion, and

wherein said caulking is made by rolling a roller over said one end portion of each of said hollow pins.

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17. The method according to claim 16, wherein said metal is an aluminum alloy.

